



The Importance of Environmental Indicators in Indian Country

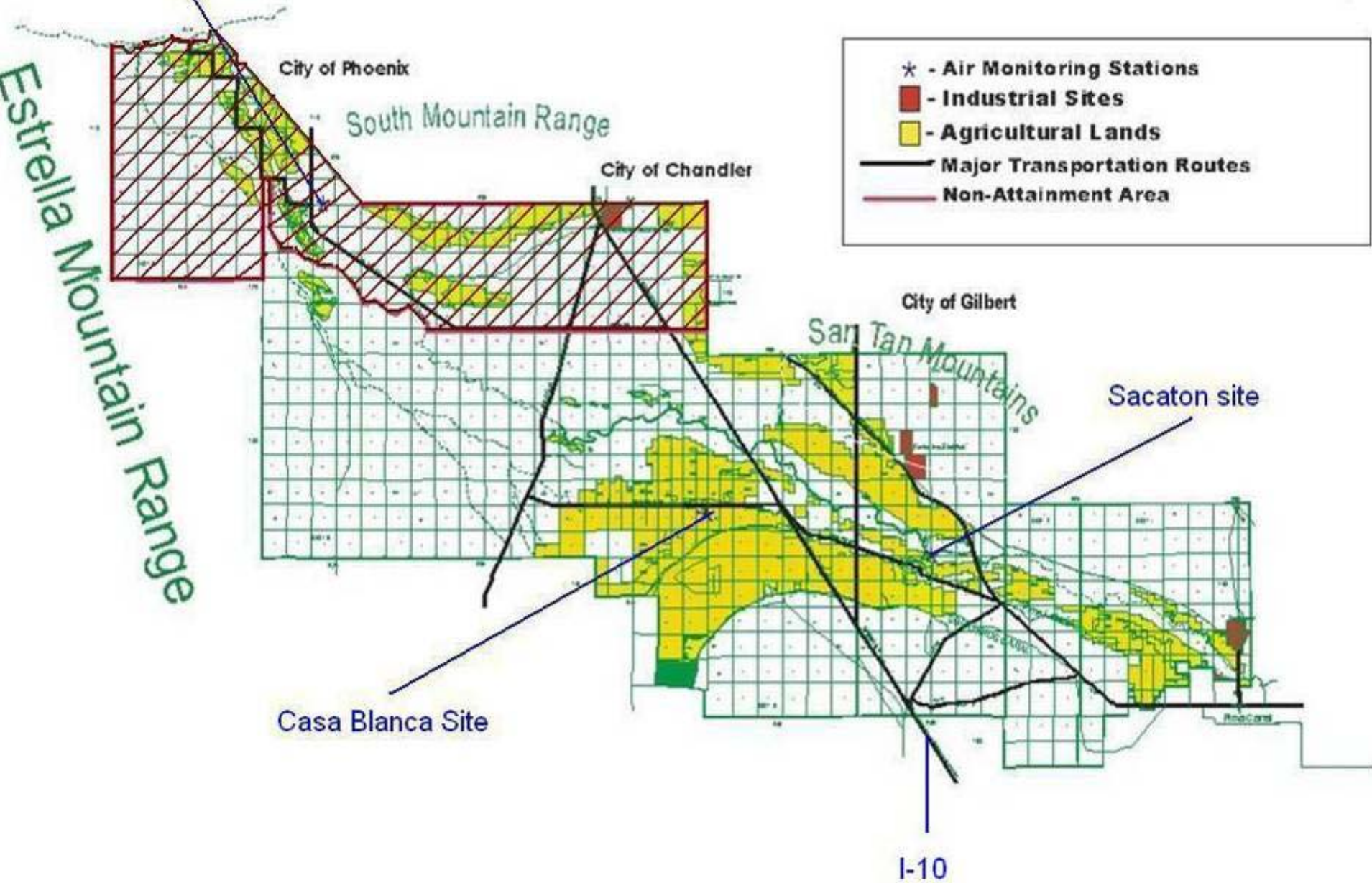
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Background:

Gila River Indian Community

- Central Arizona, adjacent to Phoenix
- Akimel O'odham (Pima) & Pee Posh (Maricopa)
- Located in Maricopa & Pinal counties
- Established in 1859 by Executive Order
- 374,000 acres
- Population 13,500 people (on-reservation)

Gila River Indian Community



Measuring Environmental Protection in Indian Country

- Culturally
- Traditionally
- Historically
- Holistically



List of Present Uses*

Natural Resource Uses	Food	Economic	Implements	Lodging	Ceremonial	Spiritual	Family	Medicine
Rainbow Fish	Occasional source of food				Scales used for iridescent powder for ceremonial dances	Spiritual kinship as former main food source		
Fisherman's Shallows		Dam which destroyed shallows supplied electric power to surrounding area						
Twilla Reed		Baskets major source of income from tourists	Baskets, twine made from stalks		Used in making headdress, garments for dances	Used in making headdress, garments	Women gather, prepare basket/twine ; dancers does own costume	Roots prepared into cough remedy
Corn	Principal starchy food source for the community	Imported						

Summary of Levels of Use

Natural Resource Uses	Food	Economic	Implements	Lodging	Ceremonial	Spiritual	Family	Medicine
Animals: Fish								
Rainbow Fish	Low	Low	Low	Low	Medium	High	High	Low
Bass	High	Low	Low	Low	Low	Low	Low	Low
Poha Fish	Low	Low	Low	Low	Medium	High	Low	Low

Indicators

- Cultural
- Traditional
- Historic
- Holistic



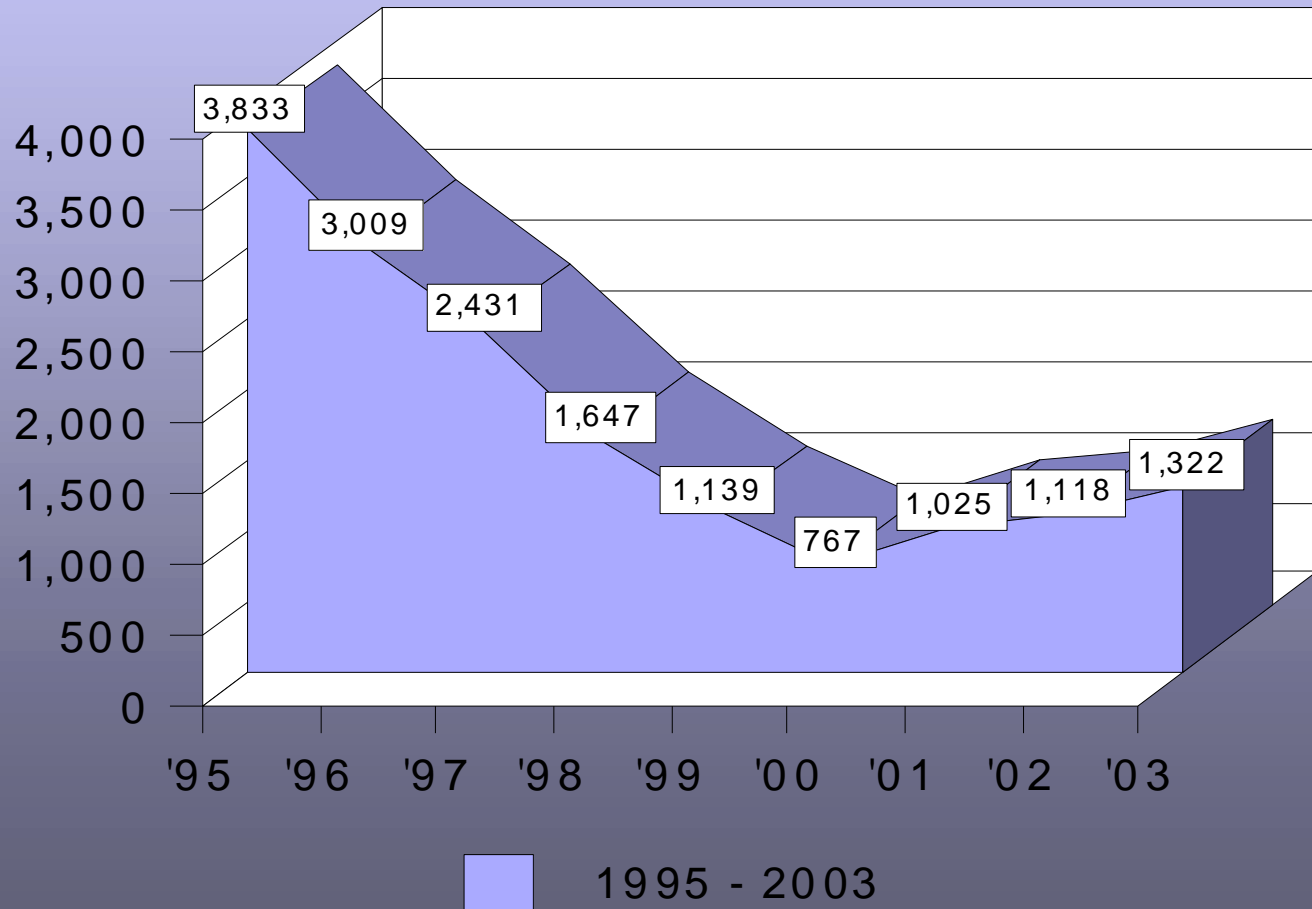
What Needs to be Done?

- Problems and opportunities:
 - Identify tribal members, tribal leadership issues, and define problems that could translate into measurable goals and indicators
 - How is your program going to affect areas such as development for the tribe
 - For example, solid waste is a big problem for tribal members, will any new development help or create more solid waste issues? How do you measure that?

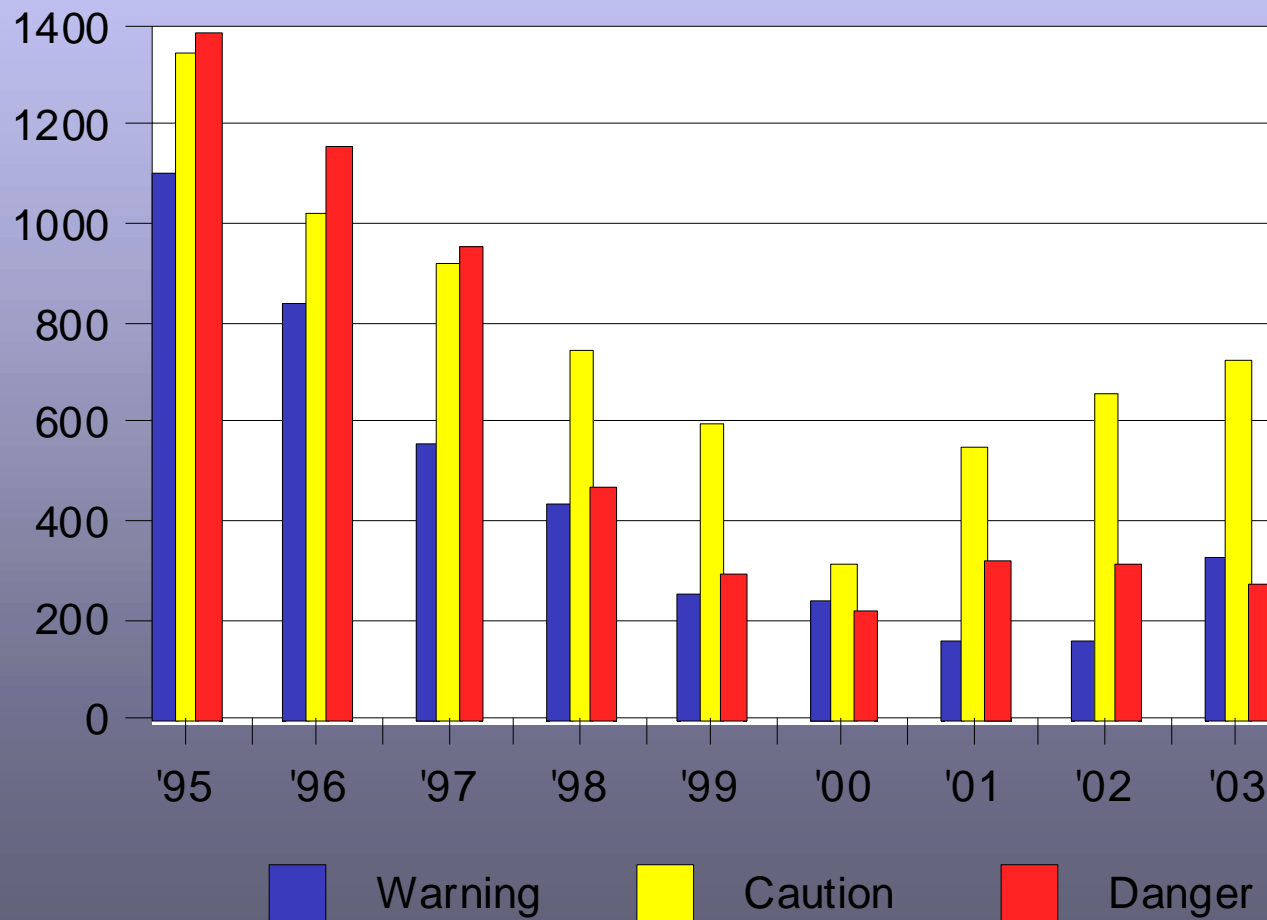
Key Indicators

- Short term
 - Identify key indicators need immediate or short-term identification
- Long term
 - Identify indicators needing long-term measurable identification
 - Identify measurable consequences of your programs and or activities

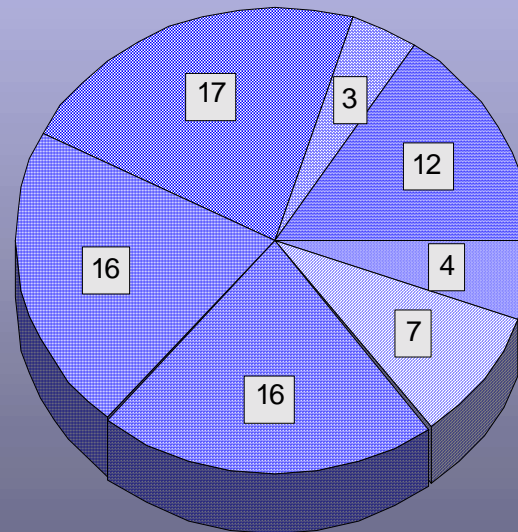
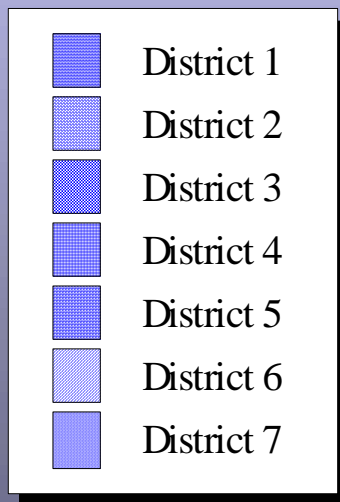
Aerial Applications



Aerial Applications by Toxicity



Distribution of DEQ Burn Permits by District



Indicators & Rewards

○ Indicators

- Identify Indicators
- Addressing Indicators
- Strategically planning for Indicators

○ Rewards

- Estimate expected pay-off, better public health, better relationships in the Community, a sense of environmental protection.





Your Community is Important



Questions?